Claims

What is claimed is:

- 1. An endotracheal tube introducer ("introducer") for slidably removable disposition within an
- 2 endotracheal tube ("ETT"), said introducer having a wall defining a lumen extending between a
- 3 proximal end and a distal end of said introducer, said wall having an outer diameter that is less
- 4 than an inner diameter of said ETT, and said wall being circumscribed by an invertibly attached
- 5 shroud for distal-ward ("forward") flexion and proximal-ward ("rearward") flexion.
- 1 2. The introducer of claim 1, wherein said shroud has a substantially frusto-conical shape
- 2 extending from a first circle, in a first plane perpendicular to a longitudinal axis of said
- introducer and coincident with a ring of said introducer, said ring forming a circumferential pivot
- 4 for said flexion of said shroud, to a second circle in a second plane parallel to said first plane,
- said second circle of said shroud being generally coaxial with said introducer and unattached to
- 6 said introducer.
- 1 3. The introducer of claim 2, wherein said first circle of said shroud is invertibly attached to said
- 2 ring of said introducer.
- 4. The introducer of claim 3 wherein said shroud flexes forward and rearward with respect to said
- 2 ring.

- 5. The introducer of claim1, wherein said shroud has a substantially frusto-conical shape
- 2 extending from a first circle, in a first plane perpendicular to a longitudinal axis of said
- 3 introducer and coincident with a ring of said introducer, said ring forming a circumferential pivot
- for said flexion of said shroud, to an ellipse in a second plane that is either parallel or other than
- 5 parallel to said first plane, said ellipse being unattached to said introducer.
- 1 6. The introducer of claim 5, wherein said first circle of said shroud is invertibly attached to said
- 2 ring of said introducer.
- 7. The introducer of claim 6, wherein said shroud flexes forward and rearward with respect to
- 2 said ring.
- 1 8. The introducer of claim1, wherein said proximal end is split.
- 9. A method for performing an intubation using an endotracheal tube ("ETT") and an
- 2 endotracheal tube introducer ("introducer"), said introducer having a wall defining a lumen
- 3 extending between a proximal end and a distal end of said introducer, said wall having an outer
- 4 diameter that is less than an inner diameter of said ETT, and said wall being circumscribed by an
- 5 invertibly attached shroud for distal-ward ("forward") flexion and proximal-ward ("rearward")
- 6 flexion, comprising the steps of:
- a. placing said shroud of said introducer in an anteflexed, forward conformation;
- 8 b. placing said proximal end of said introducer within a lumen of said ETT at a distal end
- 9 thereof;

- 10 c. advancing said proximal end of said introducer into said lumen of said ETT until a proximal
- end of said invertibly attached shroud apposes a distal tip of said ETT;
- d. manually flexing said shroud of said introducer from said anteflexed, forward conformation to
- a retroflexed, rearward conformation, thereby covering said distal tip of said ETT.
- 1 10. The method of claim 9, wherein said proximal end of said introducer is split.
- 1 11. The method of claim 9, further comprising the steps of:
- a. manually flexing said shroud of said introducer from said anteflexed, forward conformation to
- said retroflexed, rearward conformation, thereby additionally covering Murphy eye of said ETT;
- b. fixing said proximal end of said introducer to a proximal end of said ETT by means of surgical
- 5 tape or a fixation ring, thereby stabilizing said distal end of said ETT and said distal end of said
- 6 introducer and forming a combined introducer-ETT unit having a shrouded combined distal end;
- 7 c. lubricating a region between said shroud of said introducer and said distal end of said ETT
- 8 with surgical lubricant to prevent sticking during subsequent withdrawal of said introducer from
- 9 said lumen of said ETT;
- d. introducing a malleable stylet within said lumen of said introducer forming said combined
- 11 introducer-ETT unit:
- 12 e. advancing said combined introducer-ETT unit bearing said malleable stylet within said lumen
- of said introducer into a patient's airway;
- 14 f. directing said shrouded combined distal end of said combined introducer-ETT unit bearing said
- malleable stylet between and beyond a patient's vocal cords;

- g. removing said surgical tape or said fixation ring and withdrawing said introducer from said
- 17 ETT.
- 1 12. The method of claim 9, further comprising the steps of:
- a. manually flexing said shroud of said introducer from said anteflexed, forward conformation to
- said retroflexed, rearward conformation, thereby additionally covering Murphy eye of said ETT;
- b. fixing said proximal end of said introducer to a proximal end of said ETT by means of surgical
- 5 tape or a fixation ring, thereby stabilizing said distal end of said ETT and said distal end of said
- 6 introducer and forming a combined introducer-ETT unit having a shrouded combined distal end;
- 7 c. lubricating a region between said shroud of said introducer and said distal end of said ETT
- 8 with surgical lubricant to prevent sticking during subsequent withdrawal of said introducer from
- 9 said lumen of said ETT;
- d. advancing said combined introducer-ETT unit into a patient's nostril and thence into said
- patient's nasopharynx until said combined introducer-ETT unit is visualized through said
- patient's mouth in said patient's oropharynx;
- e. grasping a shrouded distal end of said combined introducer-ETT unit with a forceps introduced
- through said patient's mouth and thence directing said shrouded distal end of said combined
- introducer-ETT unit so as to place said shrouded distal end of said combined introducer-ETT unit
- between and beyond said patient's vocal cords;
- 17 f. removing said surgical tape or said fixation ring and withdrawing said introducer from said
- 18 ETT.

- 1 13. The method of claim 9, further comprising the steps of:
- a. manually flexing said shroud of said introducer from said anteflexed, forward conformation to
- said retroflexed, rearward conformation, thereby additionally covering Murphy eye of said ETT;
- b. fixing said proximal end of said introducer to a proximal end of said ETT by means of surgical
- 5 tape or a fixation ring, thereby stabilizing said distal end of said ETT and said distal end of said
- 6 introducer and forming a combined introducer-ETT unit having a shrouded combined distal end;
- 7 c. lubricating a region between said shroud of said introducer and said distal end of said ETT
- 8 with surgical lubricant to prevent sticking during subsequent withdrawal of said introducer from
- 9 said lumen of said ETT;
- d. inserting a fiberscope within said lumen of said introducer forming said combined introducer-
- 11 ETT unit;
- e. introducing said fiberscope into a patient's airway and using said fiberscope to identify said
- patent's carina;
- 14 f. advancing said combined introducer-ETT unit over said fiberscope into said patient's trachea
- using said fiberscope as a guide wire, so as to place said shrouded combined distal end of said
- 16 combined introducer-ETT unit between and beyond said patient's vocal cords;
- g. withdrawing said fiberscope from said combined introducer-ETT unit;
- 18 h. removing said surgical tape or said fixation ring and withdrawing said introducer from said
- 19 ETT.

- 1 14. The method of claim 9, further comprising the steps of:
- a. manually flexing said shroud of said introducer from said anteflexed, forward conformation to
- said retroflexed, rearward conformation, thereby additionally covering Murphy eye of said ETT;
- b. fixing said proximal end of said introducer to a proximal end of said ETT by means of surgical
- 5 tape or a fixation ring, thereby stabilizing said distal end of said ETT and said distal end of said
- 6 introducer and forming a combined introducer-ETT unit having a shrouded combined distal end;
- 7 c. lubricating a region between said shroud of said introducer and said distal end of said ETT
- 8 with surgical lubricant to prevent sticking during subsequent withdrawal of said introducer from
- 9 said lumen of said ETT;
- d. inserting a tube exchanger into an in-place ETT within a patient's airway to serve as a guide
- 11 wire for its removal;
- e. withdrawing said in-place ETT over said tube exchanger;
- f. advancing said combined introducer-ETT unit over said tube exchanger so as to place said
- shrouded combined distal end of said combined introducer-ETT unit between and beyond said
- patient's vocal cords;
- g. removing said surgical tape or said fixation ring and withdrawing said introducer from said
- 17 ETT, leaving said ETT properly positioned in said patient's trachea.